

The Mutagenic Activity of Several Inhibitors of  
Cholinesterase, by I. A. Rapoport, R. G.  
Kostyanovskiy, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXI, No 1,  
1960, pp 191-.

AIBS

Sci

Feb 61

139,557

(SF-1124)

Mutation Activity of Certain Cholinesterase  
Inhibitors, by I. A. Rapoport, R. G. Kostyanovskiy,  
8 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXI, No 1,  
Mar/Apr 1960, pp 191-194.

JPRS 4175

Sci - Biol

134,416

Dec 60

Kostyanovskii, R. G.  
REACTION OF ETHYLENE-IMINE WITH FORMALDE-  
HYDE. [1961] 5p. 15 refs.  
Order from OTS or SLA \$1.10

61-18603

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1960, v.  
135, no. 4, p. 853-856.

DESCRIPTORS: \*Ethylenes, \*Imines, Formaldehyde,  
Chemical reactions.

(Chemistry--Organic, TT, v. 6, no. 9)

61-18603

I. Kostyanovskii, R. G.

Office of Technical Services

R-900

(DC-1942)

Shipping of Nonferrous Metal Shavings, by V. M.  
Kostylovskiy, D. A. Lyubimov, Technical Data on  
Soviet Heavy Machinery From the Bulletin of Technical  
and Economic Information, 1957, 4 pp. (Translation)

RUSSIAN, per, Byull Tekh-Ekon Informatsii, No 4,  
Moscow, 1957, pp 22-25.

IS JPRS/DC-352

USSR

Econ - Heavy Machine bldg.  
Jan 58 59

77,865

Necessary Conditions of the Extremum for one  
Variation Problem With a Distribution Parameter,  
by G. I. Kostychev, 1963

RUSSIAN, per, Iz Vysishikh Ucheb Zaved MVISSO SSSR,  
Seriya Aviats Tekh, No 2, 1963, pp 124-133.

JPRS 22668

Sci  
Jan 64

346 109

Certain Variational Problems on Approximation,  
and Interaction, by G. I. Kostychev, 13 pp.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Aviats  
Tekh, No 3, 1962, pp 25-33. 9685129

FTD-TT-63-401

Sci-Aero

Aug 63

*342,051*

Shape of Bodies With Minimum Wave Drag, by  
G. I. Kostychev, 7 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, MVO,  
SSSR, Ser Aviatsionnaya Tekh, No 2, 1958,  
pp 9-15. 9071192

OT/4187  
Consultants Custom Tr 127141

Sci

Sep 60

n the Use of Virtual Cathodes for Microwave Detection, by A. I. Kostyenko, M. N. Devyatkov, A. A. ebed', 10 pp.

USSIAN, per, Radiotekh i Elektron, Vol IV, No 3, 959, pp 482-488.

PP

ci

ep 60

127,346

Influence of Load on the Synchronous Operation of  
Two Reflex Klystrons, by A. I. Kostyenko, G. I.  
Lyubimov, 5 pp.

RUSSIAN, per, Radiotekh i Elektron, Vol III, No 1,  
1958, pp 112-115.

Pergamon Press

Sci - Electron

Sept 59

96,797

Experimental Study of Mutually Synchronous  
Operation of Reflex Klystrons in the Three-  
centimetre Waveband, by S. D. Gvozdover,  
A. I. Kostyenko, G. P. Lyubinov, 11 pp.

RUSSIAN, per, Radiotekh i Elektron, Vol III,  
No 1, 1958, pp 104-111.

*15*  
Pergamon Press

Sci - Electron

Sept 59

96,796

9-5505

(DC-3083).

Characteristics of Trilon A and Trilon B in the Ion Exchange Separation of Elements of the Cerium Subgroup, by Z. F. Andreyeva, A. S. Kostygov, 6 pp.

RUSSIAN, bk, Redkozenal'nyye Elementy (Polucheniye, Analiz, Primeneniye), 1958, pp 106-111.

JPRS-L-1929-D

Sci - Chem  
Nov 59

101,700

Investigations of the Electrical breakdown of  
Fins of organic glass and colluloid, by 84  
V. A. Kostygin.

RUSSIAN, rpt, Sb. Probov Dielektrikov i Poluprovod-  
nikov. N. L. Energiya, 1964, pp 174-176.

\*FTD MT-24-148-167

V. A. Kostygin

Sci-Materials

Aug 67

326,425

Kostygov, N. M.  
PHARMACOLOGICAL PROPERTIES OF OCTATEN-  
ZINE-2(1'-AZACYCLOCTYL)-ETHYL-GUANIDINE  
SULFATE. May 63, 13p. 15 refs.  
Order from OTS or SLA \$1.60 63-18768

Trans. of Farmakol[ogiya i Toksikol[ogiya] (USSR)  
1963, v. 26, no. 1, p. 28-35.

DESCRIPTORS: \*Guanethidine, \*Hypertension, \*Hy-  
potension, Blood pressure, \*Cardioactive agents,  
Toxicity, Laboratory animals.

The work is devoted to the study of general and  
cardiovascular effects, as well as toxicity of  
2 (1 -azacycloctyl)-ethyl-guanidine octatenzine sulfate  
in acute and chronic experiments. In acute experi-  
ments staged on cats and rabbits (urethanized and de-  
cerebrated) an intravenous injection of octatenzine in  
(Biological Sciences--Pharmacology, TT, v. 10, no. 11)  
(over)

63-18768

I. Kostygov, N. M.

00444

Office of Technical Services

The Antidotal Action of Mercaptosuccinic  
Acid and Unithiol Against Mercury, N. M.  
Kostygov, 1/6 pp.

RUSSIAN, per, Farmakol i Toksikol, Vol XXI,  
No 3, 1958, pp 64-68.

Consultants Bureau

Sci - Med

Apr 59

85,637

V  
Soviet Start-Stop Telegraph Apparatus; General  
Problems of Telegraphy, by Yu. U. Kostykov,  
~~SECRET~~ UNCLASSIFIED

RUSSIAN, bk, Tekhnika Svyazi, Sec 6, pp 57-66,  
Sec 7, pp 319-324, publ by the Military Publishing  
House of the War Ministry of the USSR, Moscow,  
1953, Encl 3 to MA Moscow, Ser 128-53, 23 Dec 1953.

Navy Tr 1054/ONI 1280

Scientific - Electronics

18,946

Induction Period in the Crystallization of Super-saturated Solutions, by E. Pozner, K. Asanov, K. Kostylev, 9 pp.

RUSSIAN, per, Zhur Pis Khim, Vol XIII, 1939, pp 889-895.

SLA R-2640

Sci

Jul 59

92,425

Second All-Union Seminar on Radio Methods of Observing Meteoric Ionization, by K. V. Kostylev, 3 pp.

RUSSIAN, per, Astron Zhur, Vol XXXVI, No 6, 1959, pp 1144-1146.

Amer Inst of Phys  
Soviet Astron-AJ  
Vol III, No 6

Sci

Jul 60

120,588

Equipment for Radio-Echo Observation of Meteors,  
With Automatic Recording, at the Engel'gardt  
Astronomical Observatory, by K. V. Kostylev, 8 pp.

RUSSIAN, per, Astron Zhur, Vol XXIV, No 4, 1958,  
pp 643-650.

Amer Inst of Phys  
Sov Astron - AJ  
Vol II, No 4

Sci - Astron  
Jul 59

91,678

The Technique of Applying Fine Grids to  
Determine Strains in Models, by Yu. V.  
Kostylev, G. A. Batranina, 3 pp.

RUSSIAN, per, Zavod Lab, Vol XXIV, No 1,  
1958, pp 114-116.

Instru Soc of Amer

Sci

113, 233

Apr 60

On Metamictic Disintegration of the Zircon Group of Minerals, by E. E. Kostyleva, 16 pp.

RUSSIAN, per, Voprosy Mineralogiy, Geokhimiya i Petrografiy, Akademiya Nauk SSSR, 1946, pp 27-35.

AEC/TEI-369

Scientific - Min/Metals

CTS/DEX

7315

Determination of Silicon in Gray Irons by the  
Thermo-EMF Method, by L. A. Kostyleva,  
G. A. Tatarinov,  
RUSSIAN, per, Zavodskaya Laboratoriya, Vol 30,  
No 9, 1964, p 1074.  
HB 6080

USSR  
Sci/M&M  
May 65

Synthesis of Automatic Control Systems With  
Variable Structure Having a Discontinuous  
Switching Function, by S. V. Yemal'yanov,  
N. Ye. Kostyleva, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, OTN, Tekh Kibernet,  
No 1, 1964, pp 182-186.

JPRS 24536

Rci  
ay 64

EMPLOYMENT SITUATION IN MINISTRY OF TRANSPORTATION,  
BY MARYLAKE NORTON, 10 PP.

POLISH, PER, FOREIGN ADMINISTRATION, VOL. 1,  
NO 12, 1962, PP 123-136.

JRS 1817

ECR - POLAND  
ECON  
MAR 63

225,197

Remote Level Measuring in Reservoirs, by  
O. Kostyrev, 4 pp.

RUSSIAN, per, Neftyanik, No 11, 1961,  
pp 16-17. 9678065

FTD-TT-62-849

Sci - Engr  
Sep 62

*211,092*

(SF-1880)

Equivalence Condition of Differential-  
Control Systems and Control Systems by  
Disturbance, by O. M. Kostynk, 7 pp.

RUSSIAN, per, Avtomatyka, No 1, 1961,  
pp 26-31.

JPRS 13268

*190,408*

Sci - Phys

Apr 62

Methode de production de couches scintillantes en  
ZnS pour la detection des particules alpha, by  
A. Kostyrko, A. Wisniewski, 9 pp.

POLISH to FRENCH, per, Jukleonika, Polska, Vol VII,  
No 6, 1962, pp 425-43428.

Reverse Translation  
CEA-X-523

Sci  
Mar 64

Investigations of Water Decomposition due  
to Radiation in the Primary Cooling Circuit  
of the EWA Reactor, by A. Kostyrko, 9 pp.

POLISH, per, Nukleonika, Vol V, No 3,  
1960, pp 133-142.

AEC Tr-4158

Sci

Jan 63

220,568

Annealing Brittleness of Steel in Relation to  
Size Effect, by M. P. Braun, O. S. Kostyrko,

~~2~~ pp.

<sup>4</sup>  
RUSSIAN, per, Zavod Lab, Vol XIVII, No 3, 1961,  
pp 318 - 320.

ISA

196,663

Sci  
Mag 62

On the Theorem of the Singularity of the Cauch  
Problem and the Mixed Problem for Certain Types  
of Linear Equation Systems in Particles, by  
A. G. Kostyshenko.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CIII, No 1,  
1955,

Navy 2341/T-88

Sci - Physics  
Oct 59

100,931

Visual Estimation by the Ground Controller in  
Vectoring Fighters to Aerial Targets, by N. A.  
Kostyuchenko, 9 pp.

RUSSIAN, per, Vest Voz Flot, No 12, 1957, pp 17-  
24. 643041

ATTC

USSR  
Mil  
Feb 59

81,133

50  
Biology and Fisheries of Main Commercial  
Fish of the Black and Azov Seas, by  
V. A. Kostyuchenko,  
Bibliogr. for, Trudy Azovo-Chernomorskiy  
Nauchno-Issled Institut Morskogo Rybnogo  
Khoz. i Okeanografii, Vol XIX, 1961,  
pp 43-64.

NLI. RTD 3172

(on Loan or Purchase)

V. A. Kostyuchenko

Sci-ent Ser 1 Ocean

1, 2, 3, 4, 5, 6, 7

322,934

Stresses in a Rotating Disc During Creep  
by A. G. Kostyuk. UNCL

RUSSIAN, per, Inzhenernyi Sbornik, Vol XV,  
1953, pp 15-20.

DSIR LLW RTS M.942

(loan)

Sci - Engr  
Feb 60

107,692

Formation of a Self-Adaptive Signal in Self-<sup>48</sup>  
adaptive Systems with Frequency Filters,  
by V. I. Kostyuk.  
Moskva, per. 12 Ak Nauk SSSR, OTN, Tekhn.  
Informet, No 4, 1963, pp 165-173.  
Rept. of Navy Tr 4344/APL No T-1494

*Kostyuk, V.I.*

Sci - disc  
OV 65

292,774

Vibrations in Turbomachines, by A. G. Kostyuk, 112  
MOSKVA, UR, soobsheniya v Turbomashinostri,  
1964.

\*ITB-af-25-827-67

AD 602 185  
A. G. Kostyuk

Sci-Tech, etc Ingr  
Mar 67

The Temperature Field of a Turbine Disc, by  
A. G. ~~Kostin~~ Kostyuk, 17 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 6  
1954, pp 25-36. 761761

600.0000000000000000 9.00  
Sci Mu Lib Tr 55/1421

26,761

Scientific - Physics,

Sep 55 CTS

Calculation of the Profile of a Rotating Disc  
Under Small Creep Conditions, by A. G. Kostyuk,  
USSR

USSR, Izv. Akad. Nauk Mekh, Vol XVII, 1953,  
pp 117-122.

OSMA Lending Library Unit M.40

Sci - Math  
Apr 59

83,976

Kostyuk, A. G. and Shuvalov, G. I.  
USING GAS TURBINE INSTALLATIONS IN LARGE  
CAPACITY POWER SYSTEMS. [1961].  
Order from FT \$12.30 FT-601

Trans. of Teploenergetika (USSR) 1961 [v. 8] no. 5,  
p. 3-6.

DESCRIPTORS: \*Power plants, USSR, \*Gas turbines.

(Engineering--Mechanical, TT, v. 6, no. 4)

61-22989

I. Kostyuk, A. G.  
II. Shuvalov, G. I.  
III. FT-601  
IV. Faraday Translations,  
New York

JPRS 9856

Office of Technical Services

On the Equilibrium Constants of the Reaction  
Between Potassium Mercuric Bromides and Iodides  
With Alkali, by A. P. Kostyuk, V. A. P'yankov,  
8 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol II, No 7,  
1957. pp 1535-1537.

ABC-tr-4057

Sci - Chemistry

Dec 60

1546, 117

PST 84

The Configuration and Properties of Unsaturated  
Acids and Their Derivatives, ~~Part~~ V. The Properties  
of Angelic and Tiglic Acids and Their Esters by  
A. K. Filsov and A. P. Kostyuk, 4 pp.

Full text

RUSSIAN, no page, ~~Chem. Abstracts~~ Chem. Abstr. Vol XLVI, No 3,  
1956, p 715-718.

Consultant ... room

Sci - Chemistry  
Jan 77 CCR

42,582

The Equilibrium Constants of the Reaction Between  
Potassium Bromo- and Iodo-mercuriates and Alkali,  
by A. P. Kostyuk, V. A. Shankov, 4 pp.

RUSSIAN, per, Zhur Georg Khin, Vol II, 1957,  
pp 1535-1537.

ABC 3427

113

Vibrations in Turbomachinery, by A. G. Kostyuk,  
205 pp.  
RUSSIAN, bk, Kolebaniya v Turbosashinakh, 1961,  
pp 1-214.      P100169668-V  
FTD-HT-23-527-67

(DC-3428)

Problems of the Psychology of Thinking, by  
G. S. Kostyuk, 130 pp.

RUSSIAN, bk, Psikhologicheskaya Nauka v SSSR,  
Vol I, 1959.

(FDD 20155)

I. P. Pavlov's Theories and Philosophical Questions  
in Psychology, by G. S. Kostyuk, 13 pp.

RUSSIAN, no par, Sov Kniga, No 6, Moscow, Jun 1953,  
pp 78-82.

CIA/FDD/U-5630

USER

Sci - Med

Mar 54 CTS

11,663

(DC-2700/59)

The Development of Agriculture in the Kirgiz SSR  
During the Seven-Year Plan Period, by N. I.  
Kostyuk, 7 pp.

RUSSIAN, per, Khlopkovodstvo, No 11, 1960,  
pp 4-10.

JPRS 8099      149 011

(100-2594)

Basic Performance Indices for the USSR, GDR, East Germany and 2 Tootsi Paat Briguet Plants for 1957-1958, by N. S. Kostyuk, 5 pp.

RUSSIAN, per, TomPyanaya Prom, No 5, 1959, pp 17-18.

JPRS 13624

USSR  
Econ  
May 62

193, 609

New Methods of Neurophysiological Investigation,  
by P. G. Kostyuk, 6 pp.

RUSSIAN, per, Vest Ak Medit Nauk SSSR, Vol XIX,  
No 2, 1964.

JPRS 24682

Sci

Kostyuk, P. G.  
FUNCTIONAL PRESYNAPTIC AND POSTSYNAPTIC  
CHANGES DURING DEGENERATION OF CENTRAL  
SYNAPSES. Nov/Dec 63, 6p 40refs  
Order from FASEB \$2.00 in Federation Proceedings  
Translation Supplement, v. 22, no. 6, p. 11,  
p. T1101-T1106

Trans. of \*Fiziotologicheskii Zhurnal SSSR, 1962,  
v. 48, no. 11, p. 1316ff.

DESCRIPTORS: \*Nerve cells, \*Atrophy, Brain,  
Spinal cord, \*Neuromuscular transmission,  
Bioelectronics, \*Motor reactions, Regeneration

TT-63-17973-6  
(p. T1101-T1106)

- I. Kostyuk, P. G.
- II. Federation of American  
Societies for Experi-  
mental Biology,  
Washington, D. C.

(NY-6551/2)

Peculiarities of the Course of the Excitation  
Process in Various Parts of the Motor Neuron,  
by P. G. Kostyuk, I. P. Semenyutin, 20 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII, No 2,  
Mar/Apr 1961, pp 165-176.

JPRS 9968

Sci - Med  
Sep 61

167, 899

Kostyuk, P. G. and Savoskina, L. O.  
FUNCTIONAL CHANGES IN DEGENERATING  
SYNAPTIC ENDINGS. Nov/Dec 63, Sp 23refs  
Order from FASEB \$2.00 In Federation Proceedings  
Translation Supplement, v. 22, no. 6, pt. II,  
p. T1107-T1111

Trans. of Fiziolicheskii Zhurnal (USSR) 1962, v. 8,  
no. 5, p. 581ff.

DESCRIPTORS: \*Nerve cells, \*Neuromuscular  
transmission, \*Spinal cord, Motor reactions,  
\*Atrophy, Bioelectronics.

TT-63-17973-6  
(p. T1107-T1111)

- I. Kostyuk, P. G.
- II. Savoskina, L. O.
- III. Federation of American  
Societies for Experi-  
mental Biology,  
Washington, D. C.

280530

Clinical Neurophysiology, 1963, 11, 6, 1111

Journal of Neurophysiology

Problems of General Electrophysiology, by  
P. H. Kostyuk, 26 pp.

RUSSIAN, per, Fiz Zhur Ak Nauk Ukrain,  
Vol VIII, No 4, ~~XXXX~~ Jul-Aug 1962,  
pp 433-441.

JPRS 15579

Sci - Med  
Oct 62

*215, 593*

Microelectrode Technique, by P. G. Kostyuk,  
131 pp.

RUSSIAN, bk, Mikroelektrodnaya Teknika, Kiev,  
1960, pp 1-126.

JPRS 16028

Sci - Med

Nov 62

517,586

Characteristics of the Responses of Various Spinal  
Neurons to Direct Stimulation, by P. G. Kostyuk,  
A. I. Shapovalov, 3 pp.

RUSSIAN, per, *Dzul Eksper Biol i Med*, Vol L,  
No 9, 1960, pp 8-10.

CB

Sci

Jun 61

156,835

Electrophysiology of the Spinal Cord, by  
S. G. Kostin, 28 pp.  
M. M. Ak, Novye nauki i tekhnologii  
traditsionnoye i sovremennoye  
istoriya, 1991, pp 115-131  
JAN 2007

*p 62*

Sci-6a Med Sci  
20 05

215, 271

Relation Between Electrical Polarization and  
Rhythmical Activity of Striated Muscle Fibre,  
by P. G. Kostyuk, A. I. Shapovalov, 10 pp.

RUSSIAN, per, Biofiz, Vol V, No 5, 1960,  
pp 586-594.

PP

Sci

Jun 61

156,356

Investigation of Electrical Reactions of  
the Central Portion of the Extensor Reflex  
Arc by the Use of Microelectrodes, by P. G.  
Kostyuk, 4 pp.

RUSSIAN, per, Naukovi Zapysky. Kyivskyy  
Derhavnyy Universytet, Vol XVI, No 18, 1957,  
pp 5-23. (partial tr) CIA 9041076

NIH 8-31

Sci - Medicine  
Aug 59

93, 203

Electrophysiological Characteristics of Individual  
Spinal Cord Neurons, by P. G. Kostyuk, 13 pp.

RUSSIAN, per, Fiziol Zhur SSSR imeni I. M.  
Sechenova, Vol XLVI, No 1, 1960, pp 9-19.

Pergamon Press

Sci

Aug 60

126,646

The Nature of Excitation and Inhibition in Single  
Internuncial Neurons of the Spinal Cord, by  
P. G. Kostyuk, 10 pp.

RUSSIAN, per, Fiz Zhur ~~SSSR~~ SSSR, imeni I. M. Sechenova,  
Vol XLVII, No 10, 1961.

Elsevier Pub Co

Sci

~

Oct 62  
c

216,362

Electrical Manifestations of Reciprocal  
Excitation and Inhibition in Individual  
Motoneurons, by P. G. Kostyuk, 10 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol. ~~65~~<sup>119-121</sup>,  
No 6, 1958, pp 12~~1~~<sup>1</sup>-12~~1~~<sup>1</sup>      CIA 9041270  
65-58

Sci - Medicine

Aug 59

NIH-8-30

HIPS

93,202

Electrotonic Potentials of the Simplest Reflex Arcs  
in Phenol Poisoning, by P. G. Kostyuk, 4 pp.

RUSSIAN, per, Byul Eksper Biol i Med, Vol XLI, No 5,  
May 1956, pp 3-6.

Consultants Bureau

Sci - Medicine  
May 57 CTS

48,187

Electrical Manifestations of Reciprocal  
Excitation and Inhibition in Individual  
Intermediate Neurons, by P. G. Kostyuk, 9 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXX, No 1,  
1958, pp 219-222. CIA 9041269

NIH 829

Sci - Medicine

Aug 59

93,201

Electrotonic Potentials in the Simplest Reflex Arc  
in Strychnine Poisoning, by P. G. Kostyuk, 4 pp.

RUSSIAN, per, Byul Eksper Biol i Med, Vol XLI, No 4,  
Apr 1956, pp 3-6.

Consultants Bureau

Sci - Medicine  
May 57 CTS

47,841

(FDD 25884)

Tension Reflex During a Singular Muscular Contraction,  
by P. G. Kostyuk, 19 pp.

RUSSIAN, bino per, Fiziol Zhur SSSR, Vol XLI, No 1,  
Moscow, Leningrad, Jan/Feb 1955, pp 55-63.

CIA/FDD/U-7744

USSR

Sci - Medicine, neurophysiology 31,588

Jan 56 CTS

Intracellular Recording of Muscle Fibre  
Potentials, by P. G. Kostyuk, ~~A.~~ A. Sorokina,  
A. I. Shapovalov, 11 pp.

RUSSIAN, ~~Doc~~, Biofiz, Vol IV, No 3, 1959.  
pp 310-322.

Pergamon Press

Sci

Apr 60

113, 712

Intracellular Recording of Muscle Fibre Potentials.  
The Wedensky (Vvedenski) Effect, by P. G.  
Kostyuk, 11 pp.

RUSSIAN, per, Biofis, Vol IV, No 2, 1959,  
pp 134-142.

Pergamon Press

Sci

Mar 60

110,778

Intracellular Recording of Muscle Fibre Potentials Using Repeated Stimulation, <sup>by</sup> P. G. Kostyuk, 11 pp.

RUSSIAN, per, Biofiz, Vol III, No 3, 1958,  
pp 274-285.

Pergamon Inst

Sci - Med

Mar 59

82,504

Rhythmic Background Activity of Individual Spinal  
Neurons, by P. G. Kostyuk, I. P. Semenyutin, # 7 pp.

RUSSIAN, per, Biofizika, Vol VI, No ~~IX~~ 4, 1961.

Elsevier Pub. Co.

Sci  
Jul 62

205,311

Investigation of the Conditions of Fetting and  
Wear of the Hearth of a Tilting Open Hearth  
Furnace, by V. A. Kostyuk, A. M. Skerwtsov,  
et al, 5 pp.

RUSSIAN, per, Ogneupory, No 3-4, 1963, pp 115-118.

CB

Sci

May 64

259, 255

Industrial Union for Welding by Electron  
Beam, by V. A. Kostyuk, Yu. M. Dozlov, et al,  
14 pp.

RUSSIAN, per, Svaroch Proiz, No 1, 1961,  
pp 41-43. 9663459

FTD MZL-1177/1

USSR  
Econ  
Sci - Eng  
25 Oct 61

*171, 638*

Strength of Metal Whisker Crystals Containing  
Impurities, by V. G. Kostyuk, K. K. Ziling,  
5 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol V, No 11,  
1963, pp 3060-3065.

Amer Inst of Phys  
Sov Phys - Solid State  
Vol V, No 11

Sci  
May 64

258,981

Strength Properties of Metallic Filamentary  
Crystals With Impurities, by V.G. Kostyuk.  
RUSSIAN, per, Fiz.Tverd.Tela, Vol. 5, No. 11,  
1963, pp 3060-3065.  
GB 341/TT 479

*V.G. KOSTYUK.*

Sci -  
Aug 67

335-606

Kostyuk, V. I. [Kuntsevich] V. M.,  
Mandrovskii-Sokolov, B. Yu.  
"ON CHANG'S OPTIMIZATION OF THE ADAPTIVE  
FUNCTION BY THE Z-TRANSFORMATION  
METHOD". [1961] [20]p. 24 refs.  
Order from OTS or SLA \$1.60

61-18803

Trans. of Avtomatyka (USSR) 1960, no. 4, p. 14-31.

DESCRIPTORS: Automatic, \*Control systems,  
Synthesis, Functions, Transformations (Mathematics),  
Stabilization, Errors, Noise, Data, Sampling,  
Operation.

The main theses of S. S. L. Chang's paper are given.  
The step-type optimal control system with a weighted  
sum of all previously measured differences of the  
figure of merit (or cost function) is shown to have ad-  
vantages in noise stability only when the disturbances  
(Engineering-Electronic, TT, v. 7, no. 9) (over)

61-18803

- I. Title: Chang's optimization
- I. Kostyuk, V. I.
- II. Kuntsevich, V. M.
- III. Mandrovskii-Sokolov, B. Yu.
- IV. Chang, S. S. L.

206039

Office of Technical Services

(DC-6791)

STABILITY OF SYSTEMS WITH MULTIPLYING COMPOUND  
LINKS, BY V. I. KOSTYUK, 4 PP.

RUSSIAN, PER, AVTOMATYKA, NO 5, 1961,  
PP 62-64.

JPRS 14390

SCI - ELECTRON  
AUTOMATION  
SCI JUL 62

202,496

Comparative Studies on the Therapy of Chronic  
Leukaemia With Urethane, Embekhin, Radioactive  
Phosphorus and With X-Ray Irradiation, by V. I.  
Kostuk, S. B. Iyasa, 8 pp.

RUSSIAN, bimo per, Problemy Gematolog i Preli-  
vaniya Krovi, Vol II, No 1, 1957, pp 33- 34.

Pergamon Press

Sci - Med  
Jun 57

48,883

(for NIH)

New Data on the Composition of the Pistynsk  
Conglomerates (Carpathians), by I. D. Gofshteyn,  
V. P. Kostyuk, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXII, No 1,  
1960, pp 178-180.

AGI

Sci

166, 248

Jul 61

The Problem of Miocene (Pre-pannonian)  
Volcanism of Trans-Carpathia, by V. P.  
Kostyuk, 15 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geolog,  
No 1, 1960, pp 63-80.

Amer Geolog Inst

Sci

*132, 557*

Nov 60

New Data on the Age of the Garnetiferous Rhyolite-  
Dacites of the Soviet Transcarpathia, by V. P.  
Kostyuk, G. G. Sedin, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXVIII, No 2,  
1958, pp 369- 372.

Consultants Bureau

Sci - Geophys

Jan 59

79,336

Rate of Contact Fusion of Alkali Metal-Halide  
Crystals, by P. A. Savintsev, V. Ye. Avarisheva,  
M. V. Kostyukovich, 6 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Fiz.,  
No 4, 1960, pp 107-109. 96 2117

FTI-11-31-60

Sci - Phys

80, 2 25

25 Jan 62

Opportunities for Developing Soviet-American  
Trade, by D. I. Kostyukhin, 11 pp.

RUSSIAN, per, *Mirovaya Ekonomika i Mezhdunarod-  
nyye Otnosheniya*, No 18, 1959.

Interntl Arts and Sci Press  
Soviet Highlights  
Vol II, No 1  
Jan 60

USSR  
Econ  
Feb 60

108,503

Scale For Facilitating March Computation, by V.  
Kostyukhin, 3 pp.

RUSSIAN, per, Voyenny Vestnik, No 3, 1962.

ACSI-I-0424-C  
ID 2191530

214,279

Sci  
Oct 62

On the Lifting Force of Source and Dipole in  
Bounded Fluid Stream, by A. A. Nostyukov, 4 p.

RUSSIAN, per, Prikl Matemat i Mekh, Vol XXIII,  
No 2, 1959, pp 389-391.

PP

Sci

Feb 60

106,951

Consumption of Fluoric Salts in Aluminum Electrolytic Production, by A. A. Kostyukov, 4 pp.

RUSSIAN, per, Tsvetnye Metally, Vol I, No 6, 1960, pp 50-53.

Primary Sources

Sci  
Feb 61

*, 40,247*

The Resistance of Bodies in a Liquid During Its  
Motion Near a Vertical Wall, by A. A. Kostyukov.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XCIX, No 3,  
1954, pp 349-352.

MLL M. 2759

Sci - Phys

*015 81-53310*  
*180,037*

Jan 62

Relationship of the Current Efficiency in  
Electrolytic Production of Aluminum to the  
Composition of Anodic Gases, by A. A. Kostyukov,  
7 pp.

RUSSIAN, prer, Tsvetnye Metally, Vol IV, No 3,  
1963, pp 37-42.

Primary Sources

Sci  
Jul 64

263,516

R-900

(DC-2534).

The Intensification of Working Aluminum  
Electrolysis Units, by I. P. Gupalo, A. A.  
Kostyukov, 12 pp.

RUSSIAN, per, *Vol XXXI,*  
*Tsvetnyye Metally,* No 11, 1958,  
pp 52-60.

*Moscow*

US JPRS-L-1702-D

Sci - Min/met  
Jun 59

89,189

Treatment of Steel with Synthetic Slag in the  
Ladle, by I. I. Kostyukov, 5 pp.  
RUSSIAN, per, Metallurg, NO 11, Nov 1964,  
pp 1-2.  
JPRS 23904

p 5

USSR  
Econ  
Mar 65

276,223

Highly Plastic Oilfilled Butadiene Styrene  
Rubber SBR-30AM, by V. P. Shatolov, N. M.  
Kostyukov, Ye. N. Popova, T. A. Chulyakova,  
L. A. Nedoinova, 5 pp.

RUSSIAN, per, Kauchuk i Resina, Vol XVIII, No 1,  
1959, pp 4-6.

ACSI, H-4016

Sci - Phys

Oct 59

99,520

95

Effect of High-Energy Radiation on Ceramic  
Dielectrics, by N.S. Kostyukov and T.N.  
Smirnova, 10 pp.

RUSSIAN, per, Trudy Gosudarstvennogo Isled-  
ovatel'skogo Elektrokeramicheskogo Instituta,  
4 Nov 60, pp. 120-127.  
JPRS 40,145

Semiconductors and Electrical  
Engineering  
Jul 60

344,100

22220

12 Jan 66

Effect of High-energy Radiation on Ceramic Dielectrics  
by V. V. Gerasimov, P. V. Zaitseva, pp 12-137

Russian, per, *Trudy Gosnauk. Issledovatel. Elektrotekhn. Inst.*  
av. 1, 196,

1955/ci

no re graphics,

pp - do not mutilate,

8

The Relation of Spot Size to Size and Angular  
Disorientation of Crystallites, by E. P.  
Koat'yukova, 3 pp.

RUSSIAN. per, Kristallografiya, Vol IV, No 6,  
Nov-Dec 1959, pp 020-020.

Amer Inst of Phys  
Sov Phys - Crystal  
Vol IV, No 6

Sci  
Jul 60

122,357

Increased Sensitivity in the Spectral  
Determination of Rare Elements in Solution, by  
Ya. D. Raikhbaum, E. S. Kostyukova, <sup>2</sup>/<sub>3</sub> pp.

RUSSIAN, per, Zavod Lab, Vol XXVII, No 3, 1961,  
pp 306 - 308.

ISA

196, 662

Sci  
Mar 62

Use of the Method of Additions in the Spectrographic  
Analysis of Ores for Indium and Germanium, by Ya. D.  
Kailhbaum, E. S. Kostyukova, 3 pp.

RUSSIAN, per, Zavod Lab, Vol XXV, No 8, 1959,  
pp 961-963.

Instru Soc of Amer

Sci  
Aug 60

123,474

a determination of the substructural characteristics of  
crystallites in coarse-grained materials, by  
L. Kostyukova, I. I. Kovinskiy, Sui.

Zhurnal, per, Iz Ak Nauk SSSR, Ser Fiz, Vol 1, No 1,  
1962, pp 331-339.

ci

ur 62

~~232,610~~

233,610

Effect of Strain Cycling on the Structure of  
Deformed Pure Metals, by Gal'perin, Kostyukova,  
et al, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Metall i Toplivo, No 4, 1959, pp 82-87.

ACBI I-3866  
ID 2253807  
525th MI Gp

Sci / M/M  
Feb 64

248,429